

Patent Claims

1. A laser-markable transparent or translucent plastic, which comprises A pearlescent pigment in combination with a laser-sensitive pigment which does not exhibit any pearlescent effect.
2. A laser-markable plastic according to Claim 1, which comprises from 0.1 to 2% by weight of pearlescent pigment and from 0.1 to 1.0% by weight of laser-sensitive pigment, based on the weight of the plastic.
3. A laser-markable plastic according to Claim 1, wherein the plastic is polyethylene, polypropylene, polyethylene terephthalate, polycarbonate or PVC.
4. A laser-markable plastic according to Claim 1, wherein the pearlescent pigment is composed of titanium dioxide-coated lamellae made of naturally occurring or synthetic mica, aluminum oxide, silicon dioxide, bismuth oxide chloride lamellae and/or basic lead carbonate in lamella form.
5. A laser-markable plastic according to Claim 1, wherein the laser-sensitive pigment is composed of uncoated mica or of mica coated with one or more metal oxides, the nature and thickness of the coatings being such that no pearlescent effect occurs.
6. A laser-markable plastic according to Claim 5, wherein the laser-sensitive pigment is coated with TiO_2 , Sn/Sb mixed oxide or Sn/In mixed oxide.

7. Process for preparing a laser-markable plastic according to Claim 1, which comprises mixing thermoplastic pellets of the plastic with the pearlescent pigment and the laser-sensitive pigment, and are then shaped with exposure to heat.
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8. A method for producing a moulding which is markable with the aid of laser radiation, which comprises molding a laser-markable plastic of Claim 1.
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9. A molding composed of a laser-markable plastic according to Claim 1.
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10. A method for scanner reading a laser-marking on a plastic, wherein the plastic is a laser-markable plastic of Claim 1.